Government of Canada
Gouvernement du Canada

Canadian Forestry Service
Service canadien des forêts

Bibliography of Reports Produced Under the Assessment Program of the Canada-Ontario Forest Management Subsidiary Agreement, 1978 - 1986

A.J.F. Ballak

Information Report O-X-386
Great Lakes Forestry Centre

88-02014/

THE GREAT LAKES FORESTRY CENTRE

The Great Lakes Forestry Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

The Centre specializes in research in forest production, forest protection, forest environment and forest utilization. These programs deal directly with the issue of maintaining and enhancing the resource supply. Activities range from basic to applied and developmental research, and include a significant technology transfer component.

Major activities in forestry development include federal management responsibility for federal-provincial forest management agreements, participation in the National Forestry Statistics program and forest economics research.

Close working relationships are maintained with the Ontario Ministry of Natural Resources, the forest industry, educational institutions specializing in forestry and the biological sciences, and other forestry organizations within the province. The Centre is represented on the Ontario Forestry Council and the Ontario Forestry Research Committee, which have responsibility for coordinating forestry research in Ontario.

It is recognized that forested land must be managed in the best public interest, not only for the wood production essential to our economy, but also for the recreational purposes that are so important to our social well-being. This must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

BIBLIOGRAPHY OF REPORTS PRODUCED UNDER THE ASSESSMENT PROGRAM OF THE CANADA-ONTARIO FOREST MANAGEMENT SUBSIDIARY AGREEMENT, 1978-1986

A.J.F. BALLAK, Comp.

GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

GOVERNMENT OF CANADA

1987

INFORMATION REPORT O-X-386

©Minister of Supply and Services Canada 1987
Catalogue No. Fo29-8/60E
ISBN 0-662-15550-5
ISSN 0832-7122

Additional copies of this publication are available at no charge from:

Communications Services
Great Lakes Forestry Centre
Canadian Forestry Service
Government of Canada
P.O. Box 490
Sault Ste. Marie, Ontario
P6A 5M7

ABSTRACT

This bibliography is a catalogue of the scientific, technical and popular reports produced by authors funded, at least in part, by the Forest Management Subsidiary Agreement. It includes journal papers, Information Reports, contributions to Canadian Forestry Service Research Notes, contributions to symposium proceedings, leaflets, pamphlets and newsletter articles, produced between 1978 and 1986.

Three indices are provided. The first lists reports by project number, the second by author, and the third by subject (i.e., by key words in alphabetical order).

RÉSUMÉ

Cette bibliographie est un catalogue des rapports de nature scientifique et technique et d'intérêt général rédigés par des auteurs grâce à la contribution financière, au moins en partie, résultant de l'entente auxiliaire sur l'aménagement forestier. Elle inclut des tirés à part, des rapports d'information, des articles pour la Revue de recherches du Service canadien des forêts et pour des comptes-rendus de colloques, de même que des dépliants, des brochures et des articles de bulletins qui ont été préparés de 1977 à 1986.

Elle inclut trois index. Le premier groupe les rapports selon le numéro du projet, le second selon l'auteur et le troisième selon le sujet (c'est-à-dire à l'aide de mots-clés en ordre alphabétique).

FOREWORD

Many of the reports listed in this bibliography are unpublished typescripts and others, though published, are now out of print. Hence, in many cases, requests can be filled only by making photocopies, and readers are therefore urged to be highly selective in placing orders. Nevertheless, every effort will be made to fulfill requests directed to:

The Library
Great Lakes Forestry Centre
Canadian Forestry Service
P.O. Box 490
Sault Ste. Marie, Ontario
P6A 5M7

INTRODUCTION

The Forest Management Subsidiary Agreement (FMSA), signed in 1978, committed up to $82 million to a variety of forest management activities, to be funded equally by Canada and Ontario.

The FMSA provided capital funding for the construction of forest access roads to facilitate all aspects of harvesting and forest management, for the expansion of tree-nursery facilities, and for the establishment of remote silvicultural camps to support the demands of a rapidly expanding forest management program. The agreement included a program of data collection and applied research and development, called the Assessment Program, which was aimed at solving specific forest management problems. A secondary objective was to determine the potential for increasing the utilization of northern hardwoods.

Twenty-three research and development projects were carried out under the Assessment Program, and these produced useful new information, techniques and equipment in a wide variety of areas, including vegetative propagation of superior spruce planting stock, production of accelerated transplants, mechanized collection of black spruce seed, extended greenhouse culture of container stock, and the effect of interactions of stock quality, site preparation and vegetation control on the performance of container stock plantings.

In all, about 50 published and 40 unpublished reports were produced from studies funded, at least in part, by the FMSA.

PROJECT NUMBER INDEX

NUMBER	PROJECT	PAGE
585025	Forest Stand Structure and Dynamics	1
585026	Soil Nutrient Regime and Forest Growth	1
585027	Site Preparation and Aerial Seeding of Black Spruce	1
585028	Field Regeneration Assessments	1
585029	Nursery Stock Quality	1
585030	Prescribed Fire Research	2
585031	Mounding Site Preparation	2
585032	Tree Improvement Through Vegetative Propagation	3
585033	Black Spruce Cone Harvester	4
585034	Accelerated Transplant Products	5
585036	Poplar and Willow Selection and Breeding	5
585037	White Pine Breeding	6
585038	Tamarack Selection and Breeding	6
585040	Jack Pine Breeding	7
585041	Container Planting and Handling	7
585042	Container Planting, Bud Development and Overwintering Damage	7
585043	Conditioning of Containerized Seedlings for Summer Planting	8
585044	Silvicultural Prescriptions for Containerized Planting Stock	8
585045	Fluid Drilling Unit	10
585046	Timberland Planting Machines	10
585047	Forest Stand Growth and Yield Forecasting System for Young Managed Jack Pine and Black Spruce in Northern Ontario	10
585125	Timmins Hardwood Study	10
585126	Kirkland Lake Hardwood Study	10
585127	North West Poplar Study	10
585226	Evaluation	10

No. 585025 - Forest Stand Structure and Dynamics

CARLETON, T.J. 1985. Postdisturbance stand structure and composition in the Ontario clay belt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 15 p.

No. 585026 - Soil Nutrient Regime and Forest Growth

TIMMER, V.R. 1984. Quantifying soil nutrient regime for black spruce in the claybelt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 105 p.

No. 585027 - Site Preparation and Aerial Seeding of Black Spruce

FLEMING, R.L. 1980. Upland scarification and seeding trials. p. 5 *in* C.A. PLEXMAN, *Ed.* Forestry Research Newsletter. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Fall-Winter issue.

FLEMING, R.L. and FOREMAN, F.F. 1981. Mechanical seedbed preparation for upland black spruce aerial seeding. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms) 15 p.

FLEMING, R.L. and GROOT, A. 1984. Alternatives for regenerating black spruce clearcuts. p. 2-5 *in* C.A. PLEXMAN, *Ed.* Forestry Research Newsletter. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Summer issue.

FLEMING, R.L. and LISTER, S.A. 1984. Stimulation of black spruce germination by osmotic priming: Laboratory studies. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-362. 15 p. + Appendix

FLEMING, R.L., FOREMAN, F.F. and RÉGNIÈRE, J. 1985. Black spruce seed distribution with the Brohm Seeder/Piper PA-18A aircraft combination. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-370. 23 p.

No. 585028 - Field Regeneration Assessments

ANDERSEN, S. 1983. Regeneration assessment system, version 83.2. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms)

No. 585029 - Nursery Stock Quality

DAY, R.J. and HARVEY, E.M. 1981. Morphological and physiological stock quality in relation to field outplanting performance. Rep. No. 1. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 65 p.

DAY, R.J. and HARVEY, E.M. 1984a. Morphological and physiological stock quality in relation to field outplanting performance. Rep. No. 2, 1982-1983. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 217 p.

No. 585029 - Nursery Stock Quality (Cont'd)

DAY, R.J. and HARVEY, E.M. 1984b. Morphological and physiological stock quality in relation to field outplanting performance. Rep. No. 3, 1983. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 179 p.

No. 585030 - Prescribed Fire Research

MCRAE, D.J. and ARMSTRONG, M.M.A. 1984. Comparison of site preparation techniques: prescribed burn, scarified or non-treated. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms) 35 p.

No. 585031 - Mounding Site Preparation

REID, D.J. 1979. Mineral mound and humus mound planting in boreal forest of Ontario, Phase 1. (unpubl. ms) 79 p.

REID, D.J. 1980. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 2. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 64 p.

REID, D.J. 1981. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 3. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 85 p.

REID, D.J. 1982. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 4. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 70 p.

REID, D.J. 1983. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 5. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 40 p.

REID, D.J. 1984a. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 6. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 26 p.

REID, D.J. 1984b. Mineral mound and humus mound planting in the boreal forest of Ontario, Supplementary Report 1. Five-year results from 1980 field planting. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 26 p.

SUTTON, R.F. 1983. Root growth capacity: relationship with field root growth and performance in outplanted jack pine and black spruce. Plant and Soil 71:111-122.

SUTTON, R.F. 1984. Mounding site preparation: evaluation of jack pine outplantings in a boreal Ontario study. p. 66-77 *in* C.R. Smith and G. Brown, Cochairmen. Jack Pine Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. O-P-12.

No. 585032 - Tree Improvement Through Vegetative Propagation

ARMSON, K.A., FUNG, M. and BUNTING, W.R. 1980. Operational rooting of black spruce cuttings. J. For. 78(6):341-343.

PHILLION, B.J. 1982a. Large scale production of black spruce cuttings for progeny tests. Proc. Internat'l. Plant Propag. Soc. Meet., Grand Rapids, Mich., Dec. 1982. 32:619-625.

PHILLION, B.J. 1982b. The Ontario Super Seedling Program. p. 24-30 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 7-11 June 1982, Thunder Bay, Ont.

PHILLION, B.J. 1984. Delaying the planting of excised juvenile spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 97. 2 p.

PHILLION, B.J. and BUNTING, W.R. 1983. Growth of spruce seedlings at various soluble fertilizer salt levels. Tree Plant. Notes 34(4):31-33.

PHILLION, B.J. and DANILKO, B. 1984. Growth progression monitoring: summarizing the data with the Apple II computer. Ont. Min. Nat. Resour., Nursery Note No. 101. 19 p.

PHILLION, B.J. DEWITT, J. and BUNTING, W.R. 1982a. Addition of field soil to peat/vermiculite growing media. Ont. Min. Nat. Resour., Nursery Note No. 81. 3 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982b. Effect of light intensity on rooting juvenile black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 82. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982c. Height growth of white spruce super seedlings after planting at Orono. Ont. Min. Nat. Resour., Nursery Note No. 84. 8 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982d. Plucking versus non-plucking of needles at base of black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 80. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982e. Potted black spruce seedling response to various fertilizer rates. Ont. Min. Nat. Resour., Nursery Note No. 85. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982f. Rooting balsam fir juvenile cuttings. Ont. Min. Nat. Resour., Nursery Note No. 78. 2 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982g. Rooting scots pine and white pine cuttings with indolebutyric acid. Ont. Min. Nat. Resour., Nursery Note No. 83. 3 p.

PHILLION, B.J., DEWITT, J. and BUNTING W.R. 1983a. Highlight intensity stimulates lateral bud production in *Pinus sylvestris* L. seedlings. Plant Propag. 29(2):11-13.

No. 585032 - Tree Improvement Through Vegetative Propagation (Cont'd)

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1983b. Propagation of juvenile scots pine cuttings under 24 hour photo period. Tree Plant. Notes 34(4):39-42.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1983c. Treatment of black spruce with 6-Benzylamino Purine (BAP) to attempt to stimulate bud and shoot development. Plant Propag. 29(1):11-12.

PHILLION, B.J. and FRANCIS, J.C. 1984. A technique to quantify the speed of rooting in coniferous cutting crops. Ont. Min. Nat. Resour., Nursery Note No. 104.

PHILLION, B.J. and LIBBY, M. 1984a. "Double cropping" greenhouses for propagation of grafted stock. Ont. Min. Nat. Resour., Nursery Note No. 98. 2 p.

PHILLION, B.J. and LIBBY, M. 1984b. Growth of potted black spruce seedlings at a range of fertilizer levels. Plant Propag. 30(2):10-11.

PHILLION, B.J. and MITCHELL, J. 1984. Effect of crown position on the rooting of juvenile black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 96. 4 p.

PHILLION, B.J., WHITTAKER, J. and BUNTING, W.R. 1983. Promotion of fascicular bud development in young *Pinus sylvestris* L. seedlings selected for cloning. Plant Propag. 29(3):4-6.

No. 585033 - Black Spruce Cone Harvester

COMMANDA, E. 1982. Portable cone harvester: developed August 1979 to November 1981. Ont. Min. Nat. Resour. (unpubl. ms) 10 p. + appendices

HORTON, K.W. 1984. Mechanizing cone collection of black spruce in Ontario. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 2. 16 p.

KNIGHT, W. 1982. Portable cone harvester: 1981-1982 cone collection report. Ont. Min. Nat. Resour., Hearst, Ont. (unpubl. ms) 12 p. + appendices

MILLER, B. 1982. Mechanical cone harvesting: Kapuskasing District. Ont. Min. Nat. Resour., Kapuskasing, Ont. (unpubl. ms) 34 p.

POHANKA, J. 1974. Evolution of the OMNR cone stripper: Ignace District trials. Ont. Min. Nat. Resour., Ignace, Ont. (unpubl. ms) 3 p.

SMITH, E.P. 1979. Methods study on the collection of black spruce cones from tops. Heathwood Eng. Assoc. Ltd., Kirkland Lake Ont. (unpubl. ms) 30 p.

No. 585033 - Black Spruce Cone Harvester (Cont'd)

SMITH, E.P. 1982. Ministry of Natural Resources, Thunder Bay nurseries: top stripping machine problems. Heathwood Eng. Assoc. Ltd., Kirkland Lake Ont. (unpubl. ms) 4 p.

SMITH, E.P. and WOODCOCK, W.R. 1980. The implementation of a collecting and combining system for harvesting black spruce cones. Heathwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 59 p.

SMITH, E.P. and WOODCOCK, W.R. 1981. Black spruce cone field trials: draft. Heatwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 19 p.

SMITH, E.P. and WOODCOCK, W.R. 1982. An efficiency study of black spruce cone collecting operations. Heathwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 5 p. + appendices

YOUNG, J.H. 1983. Black spruce cone combine in Sioux Lookout District OMNR: winter of 1982-1983. Ont. Min. Nat. Resour., Sioux Lookout, Ont. (unpubl. ms) 25 p.

No. 585034 - Accelerated Transplant Products

CAVALIER, C. 1984. Procedures and results of the accelerated transplant products project. Ont. Min. Nat. Resour., Kirkland Lake, Ont. (unpubl. ms) 37 p.

No. 585036 - Poplar and Willow Selection and Breeding

BALATINECZ, J.J. and PENG, P.W.T. 1983. A study of balsam poplar wood quality in Ontario. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 71 p.

BALATINECZ, J.J. and PENG, P.W.T. 1984. Wood quality variation of balsam poplar grown in natural stands in Ontario. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 5 p. + appendices

ECKENWALDER, J.E. 1981. Gene pool selection of certain forest tree species for northern Ontario. Report No. 1. Plan for selection, collection and transmittal for 1981. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 6 p. (see also Project No. 585038)

ECKENWALDER, J.E. 1982. Gene pool selection of certain forest tree species for Northern Ontario. Report No. 2. Review and collection data for 1981; plan for 1982. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 2 p. (see also Project No. 585038)

ECKENWALDER, J.E. 1983. Gene pool selection of certain forest tree species for Northern Ontario. Report No. 3. Review and collection data for 1982; overview of project. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 3 p. + appendices. (see also Project No. 585038)

No. 585036 - Poplar and Willow Selection and Breeding (Cont'd)

ECKENWALDER, J.E. 1984. Gene pool selection of certain tree species for Northern Ontario. Report No. 4. Clarifications, recommendations and supplementary information. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 78 p. (see also Project No. 585038)

FARMER, R.E., Jr. 1984. A long-term provenance test in balsam poplar: Thunder Bay planting. Study plan and progress report. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 4 p.

HUBBES, M. 1983. Causal agent for canker-type disease symptoms on poplar. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 20 p.

HYUN, J.O. 1983. Genetic variation of trembling aspen in Ontario based on isoenzyme studies - inheritance of isoenzyme patterns. Ont. Min. Nat. Resour., Ont. Tree Improve. For. Biomass Inst., Maple, Ont. (unpubl. ms) 13 p.

No. 585037 - White Pine Breeding

HUBBES, M. 1980a. A method of bud culture for fast clonal propagation of white pine. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 13 p.

HUBBES, M. 1980b. Protein patterns and blister rust resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 29 p.

HUBBES, M. 1981. Identification of the genetic base of blister resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 26 p.

HUBBES, M. 1982. Identification of the genetic base of blister resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 16 p.

No. 585038 - Tamarack Selection and Breeding

ECKENWALDER, J.E. 1981. Gene pool selection of certain forest tree species for Northern Ontario. Report No. 1. Plan for selection, collection and transmittal for 1981. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 6 p. (see also Project No. 585036)

ECKENWALDER, J.E. 1982. Gene pool selection of certain forest tree species for northern Ontario. Report No. 2. Review and collection data for 1981; plan for 1982. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 2 p. (see also Project No. 585036)

ECKENWALDER, J.E. 1983. Gene pool selection of certain forest tree species for northern Ontario. Report No. 3. Review and collection data for 1982; overview of project. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 3 p. + appendices. (see also Project No. 585036)

No. 585038 - Tamarack Selection and Breeding (Cont'd)

ECKENWALDER, J.E. 1984. Gene pool selection of certain tree species for northern Ontario. Report No. 4. Clarifications, recommendations and supplementary information. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 78 p. (see also Project No. 585036)

No. 585040 - Jack Pine Breeding

DANZMANN, R.G. and BUCHERT, G.P. 1982. Isozyme variability in Central Ontario jack pine. p. 232-248 *in* Proc. 28th Northeastern Tree Improve. Conf., Durham, N.H.

No. 585041 - Container Planting and Handling

WHELAN, B. 1985. Container handling. Ont. Min. Nat. Resour., Kirkland Lake Ont. (unpubl. ms) 4 p. + appendices.

No. 585042 - Container Planting, Bud Development and Overwintering Damage

COLOMBO, S.J. 1982a. The shoot growth habit peculiar to second-year pine seedlings. p. 433 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

COLOMBO, S.J. 1982b. Winter damage to container seedlings: Consequences and prevention. p. 10-24 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 7-11 June 1982, Thunder Bay, Ont.

COLOMBO, S.J. 1983. Acclimatizing and overwintering spruce container stock. p. 79-81 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 13-17 June 1983, Kemptville, Ont.

COLOMBO, S.J. 1984. Shoot morphology of winter-damaged black spruce container seedlings. Ont. Min. Nat. Resour., For. Res. Note No. 36. 3 p.

COLOMBO, S.J. and GLERUM, C. 1984. Winter injury to shoots as it affects root activity in black spruce container seedlings. Can. J. For. Res. 14(1):31-32.

COLOMBO, S.J., GLERUM, C. and WEBB, D.P. 1982a. Bud development in black spruce container stock. Ont. Min. Nat. Resour., For. Res. Note. 5 p.

COLOMBO, S.J., GLERUM, G. and WEBB, D.P. 1982b. Cold hardiness and bud development under short days in black spruce and white spruce seedlings. p. 171-181 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

COLOMBO, S.J., GLERUM, G. and WEBB, D.P. 1984. Frost hardiness testing: an operational manual for extended greenhouse culture. Ont. Min. Nat. Resour., For. Rep. No. 110. 14 p.

No. 585042 - Container Planting, Bud Development and Damage (Cont'd)

COLOMBO, S.J. and SMITH, W.R. 1984. Delayed bud initiation in black spruce container seedlings due to accidental daylength extension. Ont. Min. Nat. Resour., For. Res. Note No. 37. 4 p.

No. 585043 - Conditioning of Containerized Seedlings for Summer Planting

BUXTON, G. 1983. Some physiological responses of three northern conifers to moisture stress. Univ. Waterloo, Biol. Dep., Waterloo, Ont. (unpubl. ms) 89 p.

BUXTON, G., CYR, D. and DUMBROFF, E.B. 1981a. Drought tolerance and physiological mechanisms of drought resistance in three northern conifers. p. 437 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

BUXTON, G., CYR, D. and DUMBROFF, E.B. 1981b. Drought tolerance and physiological mechanism of resistance in northern coniferous seedling: formal report. Univ. Waterloo, Biol. Dept., Waterloo, Ont. (unpubl. ms) 33 p.

CYR, D.R. 1983. Biochemical adjustments in three northern conifers during water stress. Univ. Waterloo, Biol. Dep., Waterloo, Ont. M.Sc. thesis. (unpubl. ms) 156 p.

No. 585044 - Silvicultural Prescriptions for Containerized Planting Stock

DOMINY, S.W.J. and WOOD, J.E. 1985. Results of shelter spot seeding trials with jack pine, black spruce and white spruce in northern Ontario. For. Chron. 62(5):446-450.

WOOD, J.E. 1983. Five-year comparison of jack pine bare-root, Ontario tube, and paperpot seedlings. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. 0-X-355. 13 p. + Appendix

WOOD, J.E. 1984a. Black spruce outplanting in Ontario's Clay Belt. Bare-root versus paperpot stock: five-year results. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. 0-X-356. 11 p.

WOOD, J.E. 1984b. Preliminary investigation of the field performance of black spruce rooted cuttings in boreal Ontario. Dep. Environ., Can. For. Serv., Ottawa, Ont. CFS Res. Notes 4(3):38-39.

WOOD, J.E. and CAMPBELL, R.A. 1983a. Hexazinone for conifer site preparation: Harker 80, Part 2. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 332. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1983b. Hexazinone for conifer site preparation: Lamplugh 81, Part 1. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 333. (unpubl. ms)

No. 585044 - Silvicultural Prescription for Container Planting (Cont'd)

WOOD, J.E. and CAMPBELL, R.A. 1983c. Hexazinone for conifer site preparation: Shannon 81, Part 1. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 334. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984a. Glyphosate for conifer site preparation and release: Harker 80, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 455. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984b. Glyphosate for conifer release and site preparation: Lamplugh 81, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 456. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984c. Glyphosate for conifer release and site preparation: Lamplugh 82, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 458. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984d. Glyphosate for conifer release and site preparation: Shannon 81, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Canadian Research Report. p. 459. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984e. Hexazinone for conifer site preparation: Lamplugh 81, Part 2. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 457. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984f. Hexazinone for conifer site preparation: Shannon 81, Part 2. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 460. (unpubl. ms)

WOOD, J.E. and DOMINY, S.W.J. 1985. Black spruce, white spruce and jack pine outplantings in boreal Ontario: paperpot versus bare-root stock and spring versus summer planting. Gov't. of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-368. 79 p.

WOOD, J.E. and JEGLUM, J.K. 1984. Black spruce regeneration trials near Nipigon, Ontario: planting versus seeding, lowlands versus uplands, clearcut versus strip cut. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-361. 19 p.

No. 585045 - Fluid Drilling Unit

CAVALIER, C. 1983. Fluid drilling unit. Ont. Min. Nat. Resour., Swastika Forest Station, Swastika, Ont. (unpubl. ms) 8 p.

PHILLION, B. 1981a. Pre-germination and separation of seed in fluid drilling equipment: a summary of experiments carried out at Swastika Nursery from January to March 1981. Ont. Min. Nat. Resour., Swastika, Ont. (unpubl. ms) 60 p. + appendices

PHILLION, B. 1981b. Pre-germination of tree seed in fluid drilling equipment. Ont. Min. Nat. Resour., St. William, Ont. (unpubl. ms) 23 p.

No. 585046 - Timberland Planting Machines

DELLELCE, P.M 1980. Operational trial of Timberland Tree Planter 1980. Dellelce Construction and Equipment, Sudbury, Ont. (unpubl. ms) 12 p.

No. 585047 - Forest Stand Growth and Yield Forecasting System for Young Managed Jack Pine and Black Spruce in Northern Ontario

BROWN, K.M. and CLARKE, F.R. 1985. Growth and yield of young, managed, jack pine and black spruce in northwestern and northcentral Ontario. Ont. Min. Nat. Resour., Kenora, Ont. (unpubl. ms) 121 p.

No. 585125 - Timmins Hardwood Study

ANON. 1982. Timmins white birch project - feasibility study. Jellicoe Resource Association Ltd., Toronto, Ont. (unpubl. ms) 50 p. + appendices

No. 585126 - Kirkland Lake Hardwood Study

HAMILTON, J.E. 1983. Kirkland Lake poplar study. Ont. Min. Nat. Resour., Swastika, Ont. (unpubl. ms) 3 p. + appendices.

No. 585127 - North West Poplar Study

CLARK, A.M. 1982. A report on the incidence of cull in Kenora District. Ont. Min. Nat. Resour., Kenora Ont. (unpubl. ms) 51 p.

No. 585226 - Evaluation

ANON. 1984. Evaluation report: Canada-Ontario Forest Management Subsidiary Agreement. MMC Economic Cons., Toronto, Ont. 60 p. + appendices.

AUTHOR INDEX

ANDERSON, S. 1983. Regeneration assessment system, version 83.2. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms)

ANON. 1982. Timmins white birch project - feasibility study. Jellicoe Resource Association Ltd., Toronto, Ont. (unpubl. ms) 50 p. + appendices.

ANON. 1984. Evaluation report: Canada-Ontario Forest Management Subsidiary Agreement. MMC Economic Cons., Toronto, Ont. 60 p. + appendices.

ARMSON, K.A., FUNG, M. and BUNTING, W.R. 1980. Operational rooting of black spruce cuttings. J. For. 78(6):341-343.

BALATINECZ, J.J. and PENG, P.W.T. 1983. A study of balsam poplar wood quality in Ontario. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 71 p.

BALATINECZ, J.J. and PENG, P.W.T. 1984. Wood quality variation of balsam poplar grown in natural stands in Ontario. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 5 p. + appendices.

BROWN, K.M. and CLARKE, F.R. 1985. Growth and yield of young, managed, jack pine and black spruce in northwestern and northcentral Ontario. Ont. Min. Nat. Resour., Kenora, Ont. (unpubl. ms) 121 p.

BUXTON, G. 1983. Some physiological responses of three northern conifers to moisture stress. Univ. Waterloo, Biol. Dep., Waterloo, Ont. (unpubl. ms) 89 p.

BUXTON, G., CYR, D. and DUMBROFF, E.B. 1981a. Drought tolerance and physiological mechanisms of drought resistance in three northern conifers. p. 437 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

BUXTON, G., CYR, D. and DUMBROFF, E.B. 1981b. Drought tolerance and physiological mechanism of resistance in northern coniferous seedlings: formal report. Univ. Waterloo, Biol. Dep., Waterloo, Ont. (unpubl. ms) 33 p.

CARLETON, T.J. 1985. Postdisturbance stand structure and composition in the Ontario clay belt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 15 p.

CAVALIER, C. 1983. Fluid drilling unit. Ont. Min. Nat. Resour., Swastika Forest Station, Swastika, Ont. (unpubl. ms) 8 p.

CAVALIER, C. 1984. Procedures and results of the accelerated transplant products project. Ont. Min. Nat. Resour., Kirkland Lake, Ont. (unpubl. ms) 37 p.

CLARK, A.M. 1982. A report on the incidence of cull in Kenora District. Ont. Min. Nat. Resour., Kenora, Ont. (unpubl. ms) 51 p.

COLOMBO, S.J. 1982a. The shoot growth habit peculiar to second-year pine seedlings. p. 433 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

COLOMBO, S.J. 1982b. Winter damage to container seedlings: Consequences and prevention. p. 10-24 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 7-11 June 1982, Thunder Bay, Ont.

COLOMBO, S.J. 1983. Acclimatizing and overwintering spruce container stock. p. 79-81 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 13-17 June 1983, Kemptville, Ont.

COLOMBO, S.J. 1984. Shoot morphology of winter-damaged black spruce container seedlings. Ont. Min. Nat. Resour., For. Res. Note No. 36. 3 p.

COLOMBO, S.J. and GLERUM, C. 1984. Winter injury to shoots as it affects root activity in black spruce container seedlings. Can. J. For. Res. 14(1):31-32.

COLOMBO, S.J., GLERUM, C. and WEBB, D.P. 1982a. Bud development in black spruce container stock. Ont. Min. Nat. Resour., For. Res. Note. 5 p.

COLOMBO, S.J., GLERUM, G. and WEBB, D.P. 1982b. Cold hardiness and bud development under short days in black spruce and white spruce seedlings. p. 171-181 *in* J.B. Scarratt, C. Glerum and C.A. Plexman, *Ed.* Canadian Containerized Tree Seedling Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. 0-P-10.

COLOMBO, S.J., GLERUM, G. and WEBB, D.P. 1984. Frost hardiness testing: an operational manual for extended greenhouse culture. Ont. Min. Nat. Resour., For Rep. No. 110. 14 p.

COLOMBO, S.J. and SMITH, W.R. 1984. Delayed bud initiation in black spruce container seedlings due to accidental daylength extension. Ont. Min. Nat. Resour., For. Res. Note No. 37. 4 p.

COMMANDA, E. 1982. Portable cone harvester: developed August 1979 to November 1981. Ont. Min. Nat. Resour. (unpubl. ms) 10 p. + appendices.

CYR, D.R. 1983. Biochemical adjustments in three northern conifers during water stress. Univ. Waterloo, Biol. Dep., Waterloo, Ont. (unpubl. ms) 156 p.

DANZMANN, R.G. and BUCHERT, G.P. 1982. Isozyme variability in Central Ontario jack pine. p. 232-248 *in* Proc. 28th Northeastern Tree Improve. Conf., Durham, N.H.

DAY, R.J. and HARVEY, E.M. 1984a. Morphological and physiological stock quality in relation to field outplanting performance. Lakehead Univ., Sch. For., Thunder Bay, Ont. Rep. NO. 3, 1983. (unpubl. ms) 179 p.

DAY, R.J. and HARVEY, E.M. 1984b. Morphological and physiological stock quality in relation to field outplanting performance. Rep. No. 2, 1982-1983. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 217 p.

DELLELCE, P.M. 1980. Operational trial of Timberland Tree Planter 1980. Dellelce Construction and Equipment, Sudbury, Ont. (unpubl. ms) 12 p.

DOMINY, S.W.J. and WOOD, J.E. 1985. Results of shelter spot seeding trials with jack pine, black spruce and white spruce in northern Ontario. For. Chron. 62(5):446-450.

ECKENWALDER, J.E. 1981. Gene pool selection of certain forest tree species for northern Ontario. Report No. 1. Plan for selection, collection and transmittal for 1981. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 6 p.

ECKENWALDER, J.E. 1982. Gene pool selection of certain forest tree species for northern Ontario. Report No. 2. Review and collection data for 1981; plan for 1982. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 2 p.

ECKENWALDER, J.E. 1983. Gene pool selection of certain forest tree species for northern Ontario. Report No. 3. Review and collection data for 1982; overview of project. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 3 p. + appendices.

ECKENWALDER, J.E. 1984. Gene pool selection of certain tree species for northern Ontario. Report No. 4. Clarifications, recommendations and supplementary information. Ont. Min. Nat. Resour., Toronto, Ont. (unpubl. ms) 78 p.

FARMER, R.E., Jr. 1984. A long-term provenance test in balsam poplar: Thunder Bay planting. Study plan and progress report. Lakehead Univ., Sch. For., Thunder Bay, Ont. (unpubl. ms) 4 p.

FLEMING, R.L. 1980. Upland scarification and seeding trials. p. 5 *in* C.A. Plexman, *Ed.* Forestry Research Newsletter. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Fall-Winter issue.

FLEMING, R.L. and FOREMAN, F.F. 1981. Mechanical seedbed preparation for upland black spruce aerial seeding. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms) 15 p.

FLEMING, R.L. and GROOT, A. 1984. Alternatives for regenerating black spruce clearcuts. p. 2-5 *in* C.A. Plexman, *Ed.* Forestry Research Newsletter. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Summer issue.

FLEMING, R.L. and LISTER, S.A. 1984. Stimulation of black spruce germination by osmotic priming: laboratory studies. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-362. 15 p. + Appendix.

FLEMING, R.L., FOREMAN, F.F. and RÉGNIÈRE, J. 1985. Black spruce seed distribution with the Brohm Seeder/Piper PA-18A aircraft combination. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-370. 23 p.

HAMILTON, J.E. 1983. Kirkland Lake poplar study. Ont. Min. Nat. Resour., Swastika, Ont. (unpubl. ms) 3 p. + appendices.

HORTON, K.W. 1984. Mechanizing cone collection of black spruce in Ontario. Dep. ENviron., Can. For. Serv., Sault Ste. Marie, Ont. Joint Rep. No. 2. 16 p.

HUBBES, M. 1980a. A method of bud culture for fast clonal propagation of white pine. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 13 p.

HUBBES, M. 1980b. Protein patterns and blister rust resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 29 p.

HUBBES, M. 1981. Identification of the genetic base of blister resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 26 p.

HUBBES, M. 1982. Identification of the genetic base of blister resistance in white pines. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 16 p.

HUBBES, M. 1983. Causal agent for canker-type disease symptoms on poplar. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 20 p.

HYUN, J.O. 1983. Genetic variation of trembling aspen in Ontario based on isoenzyme studies - inheritance of isoenzyme patterns. Ont. Min. Nat. Resour., Ont. Tree Improve. For. Biomass Inst., Maple, Ont. (unpubl. ms) 13 p.

KNIGHT, W. 1982. Portable cone harvester: 1981-1982 cone collection report. Ont. Min. Nat. Resour., Hearst, Ont. (unpubl. ms) 12 p. + appendices.

McRAE, D.J. and ARMSTRONG, M.M.A. 1984. Comparison of site preparation techniques: prescribed burn, scarified or non-treated. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. (unpubl. ms) 35 p.

MILLER, B. 1982. Mechanical cone harvesting: Kapuskasing District. Ont. Min. Nat. Resour., Kapuskasing, Ont. (unpubl. ms) 34 p.

PHILLION, B.J. 1981a. Pre-germination and separation of seed in fluid drilling equipment: a summary of experiments carried out at Swastika Nursery from January to March 1981. Ont. Min. Nat. Resour., Swastika, Ont. (unpubl. ms) 60 p. + appendices.

PHILLION, B.J. 1981b. Pre-germination of tree seed in fluid drilling equipment. Ont. Min. Nat. Resour., St. Williams, Ont. (unpubl. ms) 23 p.

PHILLION, B.J. 1982a. Large scale production of black spruce cuttings for progeny tests. Proc. Internat'l. Plant Propag. Soc. Meet., Grand Rapids, Mich., Dec. 1982. 32:619-625.

PHILLION, B.J. 1982b. The Ontario Super Seedling Program. p. 24-30 *in* Proc. Ont. Min. Nat. Resour. Nurserymen's Meet., 7-11 June 1982, Thunder Bay, Ont.

PHILLION, B.J. 1984. Delaying the planting of excised juvenile spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 97. 2 p.

PHILLION, B.J. and BUNTING, W.R. 1983. Growth of spruce seedlings at various soluble fertilizer salt levels. Tree Plant. Notes 34(4):31-33.

PHILLION, B.J. and DANILKO, B. 1984. Growth progression monitoring: summarizing the data with the Apple II computer. Ont. Min. Nat. Resour., Nursery Note No. 101. 19 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982a. Addition of field soil to peat/vermiculite growing media. Ont. Min. Nat. Resour., Nursery Note No. 81. 3 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982b. Effect of light intensity on rooting juvenile black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 82. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982c. Height growth of white spruce super seedlings after planting at Orono. Ont. Min. Nat. Resour., Nursery Note No. 84. 8 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982d. Plucking versus non-plucking of needles at base of black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 80. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982e. Potted black spruce seedling response to various fertilizer rates. Ont. Min. Nat. Resour., Nursery Note No. 85. 4 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982f. Rooting balsam fir juvenile cuttings. Ont. Min. Nat. Resour., Nursery Note No. 78. 2 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1982g. Rooting scots pine and white pine cuttings with indolebutvric acid. Ont. Min. Nat. Resour., Nursery Note No. 83. 3 p.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1983a. Highlight intensity stimulates lateral bud production in *Pinus sylvestris* L. seedlings. Plant Propag. 29(2):11-13.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1983b. Propagation of juvenile scots pine cuttings under 24 hour photo period. Tree Plant. Notes 34(4):39-42.

PHILLION, B.J., DEWITT, J. and BUNTING, W.R. 1983c. Treatment of black spruce with 6-Benzylamino Purine (BAP) to attempt to stimulate bud and shoot development. Plant Propag. 29(1):11-12.

PHILLION, B.J. and FRANCIS, J.C. 1984. A technique to quantify the speed of rooting in coniferous cutting crops. Ont. Min. Nat. Resour., Nursery Note No. 104.

PHILLION, B.J. and LIBBY, M. 1984a. "Double cropping" greenhouses for propagation of grafted stock. Ont. Min. Nat. Resour., Nursery Note No. 98. 2 p.

PHILLION, B.J. and LIBBY, M. 1984b. Growth of potted black spruce seedlings at a range of fertilizer levels. Plant Propag. 30(2):10-11.

PHILLION, B.J. and MITCHELL, J. 1984. Effect of crown position on the rooting of juvenile black spruce cuttings. Ont. Min. Nat. Resour., Nursery Note No. 96. 4 p.

PHILLION, B.J., WHittaker, J. and BUNTING, W.R. 1983. Promotion of fascicular bud development in young *Pinus sylvestris* L. seedlings selected for cloning. Plant Propag. 29(3):4-6.

POHANKA, J. 1974. Evolution of the OMNR cone stripper: Ignace District trials. Ont. Min. Nat. Resour., Ignace, Ont. (unpubl. ms) 3 p.

REID, D.J. 1979. Mineral mound and humus mound planting in boreal forest of Ontario, Phase 1. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 79 p.

REID, D.J. 1980. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Rep. 2. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 64 p.

REID, D.J. 1981. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Rep. 3. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 85 p.

REID, D.J. 1982. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Rep. 4. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 70 p.

REID, D.J. 1983. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Rep. 5. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 40 p.

REID, D.J. 1984a. The forestry research project: mineral mound and humus mound planting in the boreal forest of Ontario, Report 6. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 26 p.

REID, D.J. 1984b. Mineral mound and humus mound planting in the boreal forest of Ontario. Supplementary Report No. 1. Five-year results from 1980 field planting. KBM Forestry Consultants, Thunder Bay, Ont. (unpubl. ms) 26 p.

SMITH, E.P. 1979. Methods study on the collection of black spruce cones from tops. Heathwood Eng. Assoc. Ltd., Kirkland Lake Ont. (unpubl. ms) 30 p.

SMITH, E.P. 1982. Ministry of Natural Resources, Thunder Bay nurseries: top stripping machine problems. Heathwood Eng. Assoc. Ltd., Kirkland Lake Ont. (unpubl. ms) 4 p.

SMITH, E.P. and WOODCOCK, W.R. 1980. The implementation of a collecting and combining system for harvesting black spruce cones. Heathwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 59 p.

SMITH, E.P. and WOODCOCK, W.R. 1981. Black spruce cone field trials: draft. Heathwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 19 p.

SMITH, E.P. and WOODCOCK, W.R. 1982. An efficiency study of black spruce cone collecting operations. Heathwood Eng. Assoc. Ltd., Kirkland Lake, Ont. (unpubl. ms) 5 p. + appendices.

SUTTON, R.F. 1983. Root growth capacity: relationship with field root growth and performance in outplanted jack pine and black spruce. Plant and Soil 71:111-122.

SUTTON, R.F. 1984. Mounding site preparation: evaluation of jack pine outplantings in a boreal Ontario study. p. 66-77 *in* C.R. Smith and G. Brown, *Cochairmen*. Jack Pine Symposium. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. COJFRC Symp. Proc. O-P-12.

TIMMER, V.R. 1984. Quantifying soil nutrient regime for black spruce in the claybelt. Univ. Toronto, Fac. For., Toronto, Ont. (unpubl. ms) 105 p.

WHELAN, B. 1985. Container handling. Ont. Min. Nat. Resour., Kirkland Lake, Ont. (unpubl. ms) 4 p. + appendices.

WOOD, J.E. 1983. Five-year comparison of jack pine bare-root, Ontario tube, and paperpot seedlings. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-355. 13 p. + Appendix.

WOOD, J.E. 1984a. Black spruce outplanting in Ontario's Clay Belt. Bare-root versus paperpot stock: five-year results. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-356. 11 p.

WOOD, J.E. 1984b. Preliminary investigation of the field performance of black spruce rooted cuttings in boreal Ontario. Dep. Environ., Can. For. Serv., Ottawa, Ont. CFS Res. Notes 4(3):38-39.

WOOD, J.E. and CAMPBELL, R.A. 1983a. Hexazinone for conifer site preparation: Harker 80, Part 2. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 332. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1983b. Hexazinone for conifer site preparation: Lamplugh 81, Part 1. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 333. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1983c. Hexazinone for conifer site preparation: Shannon 81, Part 1. Abstract *in* Expert Committee on Weeds, 1983. Eastern Can. Res. Rep. p. 334. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984a. Glyphosate for conifer site preparation and release: Harker 80, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 455. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984b. Glyphosate for conifer release and site preparation: Lamplugh 81, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 456. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984c. Glyphosate for conifer release and site preparation: Lamplugh 82, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 458. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984d. Glyphosate for conifer release and site preparation: Shannon 81, Part 1. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 459. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984e. Hexazinone for conifer site preparation: Lamplugh 81, Part 2. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 457. (unpubl. ms)

WOOD, J.E. and CAMPBELL, R.A. 1984f. Hexazinone for conifer site preparation: Shannon 81, Part 2. Abstract *in* Expert Committee on Weeds, 1984. Eastern Can. Res. Rep. p. 460. (unpubl. ms)

WOOD, J.E. and DOMINY, S.W.J. 1985. Black spruce, white spruce and jack pine outplantings in boreal Ontario: paperpot versus bare-root stock and spring versus summer planting. Gov't of Can., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-368. 79 p.

WOOD, J.E. and JEGLUM, J.K. 1984. Black spruce regeneration trials near Nipigon, Ontario: planting versus seeding, lowlands versus uplands, clearcut versus strip cut. Dep. Environ., Can. For. Serv., Sault Ste. Marie, Ont. Inf. Rep. O-X-361. 19 p.

YOUNG, J.H. 1983. Black spruce cone combine in Sioux Lookout District OMNR: winter of 1982-1983. Ont. Min. Nat. Resour., Sioux Lookout, Ont. (unpubl. ms) 25 p.

SUBJECT INDEX

A

Abies balsamea:	Phillion and Bunting 1983
accelerated transplant:	Cavalier 1984
acclimatizing:	*see* frost hardiness
aerial seeding:	Fleming and Foreman 1981, Fleming et al. 1985
aspen:	see *Populus* spp.

B

balsam fir:	see *Abies balsamea*
balsam poplar:	see *Populus balsamifera*
bare-root stock:	Wood 1983, 1984a
Betula papyrifera:	Anon. 1982
Benzylamino Purine (BAP):	Phillion et al. 1983c
biochemical adjustments:	Cyr 1983
black spruce:	see *Picea mariana*
black spruce aerial seeding:	*see* aerial seeding
black spruce bud development:	*see* bud development
black spruce cones:	*see* cone harvester, cone trials
black spruce cuttings:	*see* cuttings
black spruce regeneration:	*see* regeneration, black spruce
black spruce shoot development:	*see* bud development
blister rust:	Hubbes 1980a,b, 1981, 1982
breeding:	*see* clones
bud development:	Phillion et al. 1983a,c; Columbo and Webb 1982a,b
bud initiation:	*see* bud development

C

canker-type disease:	Hubbes 1983
clay belt:	Carleton 1985, Timmer 1984, Wood 1984a
clearcuts:	*see* regeneration, clearcuts
clones:	Balatinecz and Peng 1983, 1984; Eckenwalder 1981, 1982, 1983, 1984; Farmer 1984; Phillion 1983
cold hardiness:	*see* frost hardiness
comparative site preparation:	McRae and Armstrong 1984
cone collection:	Horton 1984, Smith 1982
cone combine:	*see* cone harvester
cone harvester:	Commanda 1982; Horton 1984; Knight 1982; Miller 1982; Pohanka 1974; Smith 1979; Smith and Woodcock 1980, 1981, 1982; Young 1983
cone stripper:	*see* cone harvester
cone trials:	Smith 1981
container stock:	Colombo 1982b, 1983, 1984; Whelan 1985
container handling:	Whelan 1985
cropping:	*see* double cropping
crown position, cuttings:	*see* cuttings
cull:	Clark 1982
cuttings:	Armson et al. 1980; Phillion et al. 1982 a,b,d, f,g; Phillion and Francis 1984

D

daylength extension:	Colombo 1984
delayed bud initiation:	*see* bud development
double cropping:	Phillion and Libby 1984a
drought tolerance:	Buxton et al. 1981a,b

E

evaluation: Anon. 1984

F

fertilizer salt levels: Phillion and Bunting 1983, Phillion and Libby 1984b, Phillion et al. 1982e

field performance of stock: Wood et al. 1983, 1984a,b; Wood and Dominy 1985
See also stock quality

fluid drilling: Phillion 1981a,b; Cavalier 1983

frost hardiness: Colombo 1982b, 1983, 1984

G

gene pool selection: *see* clones

genetic base blister resistance: *see* blister rust

genetic variation: Clark 1982, Hamilton 1983, Hubbes 1983, Hyun 1983

glyphosate: Wood and Campbell 1984a,b,c,d

grafted stock: Phillion and Libby 1984a

growth and yield: Brown and Clarke 1985; Phillion 1982a,b, 1984; Timmer 1984

growth progression: Phillion and Danilko 1984

H

hardwood study: Anon. 1982, Hamilton 1983

height growth: Phillion et al. 1982b

hexazinone: Wood and Campbell 1983a,b,c, 1984e,f

humus mound: *see* mounding

I

indolebutyric acid: Phillion et al. 1982g

isoenzyme studies: Danzmann and Buchert 1982, Hyun 1983

isoenzyme variability: *see* isoenzyme studies

J

jack pine: see *Pinus banksiana*

juvenile cuttings: *see* cuttings

K

Kirkland Lake: Hamilton 1983

L

larch: see *Larix* spp.

Larix spp.: Eckenwalder 1981, 1982, 1983, 1984

light intensity: Colombo 1984, Phillion et al. 1982b, 1983a,b

M

mineral mound: *see* mounding

moisture stress: *see* drought tolerance

morphology: Day and Harvey 1981, 1984a,b; Colombo 1984

mounding: Reid 1979, 1980, 1981, 1982, 1983, 1984a,b; Sutton 1984

N

nutrient regime and growth: Timmer 1984

O

Ontario tube: Wood 1983

osmotic priming: Fleming and Lister 1984

overwintering: *see* frost hardiness

P

paperpots: Wood 1983, 1984a

peat/vermiculite: Phillion et al. 1982a

photoperiod: *see* light intensity

physiology: Day and Harvey 1981, 1984a,b; Buxton et al. 1981a,b

Picea glauca: Colombo 1982, Dominy 1985, Phillion et al. 1982, Wood and Dominy 1985

Picea mariana: Brown and Clarke 1985; Fleming and Groot 1984; Sutton 1983; Armson et al. 1980; Phillion 1982a; Phillion and Mitchell 1984; Phillion et al. 1982d,e; Wood 1983; Wood and Dominy 1985

Pinus banksiana: Brown and Clark 1985; Danzmann and Buchert 1982; Wood 1983, Wood and Dominy 1985

Pinus strobus: Phillion et al. 1982, Hubbes 1980a,b, 1981, 1982

Pinus sylvestris: Phillion et al. 1982, 1983

poplar study: *see* hardwood study

Populus spp. Clark 1982, Hamilton 1983, Hubbes 1983, Hyun 1983

Populus balsamifera: Balatinecz and Peng 1983, 1984; Farmer 1984

pregermination: Phillion 1981a,b

prescribed burns: McRae and Armstrong 1984

progeny tests: Phillion 1982a

propagation cuttings: *see* light intensity, grafted stock

provenance test: Farmer 1984

R

regeneration assessment: Andersen 1983

regeneration, black spruce: Wood and Jeglum 1984

regeneration, clearcuts: Fleming and Groot 1984

root-growth capacity: Sutton 1983

rooting: Phillion et al. 1980, 1982, 1984a,b; Colombo 1984; Wood 1984b

S

Scots pine:	see *Pinus sylvestris*
seedbed:	Fleming and Foreman 1981
seed distribution:	Fleming et al. 1985
seeding trials:	Fleming 1980, Dominy and Wood 1985
shelter spot seeding:	*see* seeding trials
shoot development:	*see* bud development
soil nutrient regime:	Timmer 1984
spot seeding:	*see* seeding trials
stand structure:	Carleton 1985
stock quality:	Day and Harvey 1981, 1984a,b
super seedlings:	Phillion 1982b

T

tamarack:	see *Larix* spp.
Timberland Tree Planter:	Dellelce 1980

U

upland scarification:	Fleming 1980
upland seeding:	*see* aerial seeding

V

vermiculite:	*see* peat/vermiculite

W

water stress:	Cyr 1983 *see also* drought tolerance
white pine:	see *Pinus strobus*
white birch:	see *Betula papyrifera*
white spruce:	see *Picea glauca*

winter damage: Colombo 1984
see also frost hardiness

wood quality: Balatinecz and Peng 1983, 1984